JC02 Rec'd PCT/PTO 04 AFR 2005



Applicant:

Gopalakrishnan et al.

Examiner:

Unassigned

Serial No.:

10/518,779

Group Art Unit:

Unassigned

Filed:

December 17, 2004

Docket No.:

STFD.035US

(S02-114US)

Title:

INSULATED-GATE SEMICONDUCTOR DEVICE AND APPROACH

INVOLVING JUNCTION-INDUCED INTERMEDIATE REGION

By: \(\(\begin{array}{c} \left(\begin{array}{c} \left(\begin{array}

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

MAIL STOP PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Customer No. 40581

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted <u>before the mailing date of a</u>

<u>first Office Action</u> on the merits for the above-identified application. Accordingly, <u>no fee is due</u>

for consideration of the items listed on the enclosed Form 1449.

One or more of these items were also first cited in a communication from a foreign patent office regarding a counterpart PCT application.

In accordance with 37 C.F.R. §1.98(a)(2), and the 05 August 2003 Official Gazette Notice, only a copy of each foreign document or non-U.S. patent/application listed on the enclosed Form 1449 is provided.

App. Serial No. 10/518,779 Docket No. STFD.035US Information Disclosure Statement

Please note that any notations or markings on the attached documents do not reflect particular relevance, or lack thereof, to the present application, nor were they necessarily made by anyone affiliated with the prosecution of the present application.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

Crawford Maunu PLLC 1270 Northland Drive Suite 390 St. Paul, MN 55120

651/686-6633 x101

Reg. No. 32,122

Dated: April

FORM 1449*
INFORMATION DISCLOSURE STATEMENT

Docket Number: STFD.035US Application Number: 10/518,779

Applicant: GOPALAKRISHNAN et al.

Filing Date: 12/17/2004 Group Art Unit: Unassigned

IN AN APPLICATION

(Use several sheets if necessary)

				U.S. PATENT DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NO.		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,985,727		11/16/1999	BURR				
	5,677,215		10/14/1997	G00				
, , , , , , , , , , , , , , , , , , , 	4,062,699		12/13/1977	ARMSTRONG				
	6,294,818		09/25/2001	FUJIHIRA				
	. 6,078,082		06/20/2000	BULUCEA				
	6,452,231		09/17/2002	NAKAGAWA et al.				
	5,753,958		05/19/1998	BURR et al.				
	6,229,161		5/8/2001	NEMATI et al.				
	6,021,064		2/1/2000	MCKENNY et al.				
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· · · · · · · · · · · · · · · · · · ·			FC	REIGN PATENT DOCUMENT	s			
	DOCUMENT NO.		DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
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		ОТНЕ	R DOCUMENTS	(Including Author, Title, Date,	Pertinent Page	s, Etc.)		
	12/1980	J. Plummer, B. Scharf. "Insulated-Gate Planar Thyristors: I-Structure and Basic Operation." <i>IEEE Transactions on Electron Devices</i> , Vol. ED-27, No. 2. February 1980. pp. 380-386. BEST COPY AVAILABLE						
	01/1976	M. Declercq and J. Plummer. "Avalanche Breakdown in High-Voltage D-MOS Devices." <i>IEEE Transactions on Electron Devices</i> , Vol. ED-23, No. 1. January 1976. pp. 1-4. BEST COPY AVAILABLE						
	9/17/1997	Z.S. Gribnikov et al. "The Tunnel Diode as a Thyristor Emitter." Solid-State Electronics, Vol. 42, No. 9. 17 September 1997. pp 1761- 1763. BEST COPY AVAILABLE D. M. Kim. "Electrical Characteristics of Npn-AlGaAs/GaAs HBTs with Modulated Base Doping Structures." Journal of the Korean Physical Society, Vol. 33, No. 5. November 1998, pp. 607-611.						
	11/1998							

EXAMINER	
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DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.